AMENDMENTS TO THE CLAIMS

Please amend the claims as follows.

1. (Currently Amended) A computer implemented method for allocating a percentage of system resources among a plurality of process groups in a computer system, said computer system comprising a plurality of central processing units, said plurality of central processing units bound [[bind]] into a plurality of processor sets, said method comprising:

   assigning each of said plurality of process groups a number of shares of at least one of the plurality of processor sets, wherein the number of shares represent a relative importance of each of said plurality of process groups within its at least one of the plurality of processor sets; and

   allocating said system resources of said plurality of processor sets to each of said plurality of process groups associated with said at least one of the plurality of processor sets according to the number of shares assigned to each of said plurality of process groups associated with said at least one of the plurality of processor sets, wherein said allocating system resources comprises implementing fair-share scheduling independently within each of said plurality of processor sets, wherein implementing fair-share scheduling comprises assigning each of said plurality of process groups a fixed number of shares of said system resources,

   wherein said percentage of said system resources is calculated based on a ratio of the number of shares assigned to [[said]] each of said plurality of process groups to a total number of shares of all active process groups within each of said at least one of the plurality of processor sets.

2. (Previously Presented) The method of claim 1, wherein said system resources of each of the plurality of processor sets are allocated based on a total number of shares of all active processor groups within each of the plurality of processor sets.

3. (Cancelled)

4. (Previously Presented) The method of claim 1, wherein each of said plurality of process groups includes only one process.

5. (Currently Amended) A computer readable medium embodying a program for allocating a percentage of system resources among a plurality of process groups in a computer system, said computer system comprising a plurality of central processing units, said plurality of central processing units bound [[bind]] into a plurality of processor sets, said program comprising:

   assigning each of said plurality of process groups a number of shares of at least one of the plurality of processor sets, wherein the number of shares represent a relative importance of each of said plurality of process groups within its at least one of the plurality of processor sets; and

   allocating said system resources of said plurality of processor sets to each of said plurality of process groups associated with said at least one of the plurality of processor sets according to the number of shares assigned to each of said plurality of process groups associated with said at least one of the plurality of processor sets, wherein said allocating system resources comprises implementing fair-share scheduling independently within each of said plurality of processor sets, wherein implementing fair-share scheduling comprises assigning each of said plurality of process groups a fixed number of shares of said system resources,

   wherein said percentage of said system resources is calculated based on a ratio of the number of shares assigned to [[said]] each of said plurality of process groups to a total number of shares of all active process groups within each of said at least one of the plurality of processor sets.

6. (Previously Presented) The computer readable medium of claim 5, wherein said system resources of each of the plurality of processor sets are allocated based on a total number of shares of all active processor groups within each of the plurality of processor sets.

7. (Cancelled).

8. (Previously Presented) The computer readable medium of claim 5, wherein each of said plurality of process groups includes only one process.

9. (Currently Amended) A computer system comprising at least a central processing unit and a memory, said memory storing a program for allocating a percentage of system resources

among a plurality of process groups in a computer system, said computer system comprising a plurality of central processing units, said plurality of central processing units bound [[bind]] combined into a plurality of processor sets, said program comprising:

assigning each of said plurality of process groups a number of shares of at least one of the plurality of processor sets, wherein the number of shares represent a relative importance of each of said plurality of process groups within its at least one of the plurality of processor sets; and

allocating said system resources of said at least one of the plurality of processor sets to each of said plurality of process groups associated with said at least one of the plurality of processor sets according to the number of shares assigned to each of said plurality of process groups associated with said at least one of the plurality of processor sets wherein said allocating system resources comprises implementing fair-share scheduling independently within each of the plurality of processor sets, wherein implementing fair-share scheduling comprises assigning each of said plurality of process groups a fixed number of shares of said system resources,

wherein said percentage of said system resources is calculated based on a ratio of the number of shares assigned to [[said]] each of said plurality of process groups to a total number of shares of all active process groups within each of said at least one of the plurality of processor sets.

10. (Previously Presented) The computer system of claim 9, wherein said system resources of each of the plurality of processor sets are allocated based on a total number of shares of all active processor groups within each of the plurality of processor sets.

11. (Cancelled)

12. (Previously Presented) The computer system of claim 9, wherein each of said plurality of process groups includes only one process.